

**DII.3025P3.HP1020\_SOL251.UB\_SVD\_1.0**

**Defense Information Infrastructure (DII)**  
**Common Operating Environment (COE)**

**Software Version Description (SVD)  
for Unified Build (TMS/UCP) Version 3.0.2.5P3  
for Solaris 2.5.1 and HP-UX 10.20**

**Document Version 1.0**

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## **1. Scope**

### **1.1 Identification**

This SVD documents Unified Build (UB), Version 3.0.2.5P3. This patch contains corrections to Version 3.0.2.5. See Section 3.3 for details.

UB Version 3.0.2.5P3 is hosted on the following platforms:

- Hardware: Tactical Advanced Computer, TAC-3 (HP750/755)/TAC-4 (J210)  
Operating System: HP-UX 10.20  
DII COE Kernel: 3.0.1.0 (with patches P1, P2, P3, and P4)
  
- Hardware: Sparc 10/20  
Operating System: Solaris 2.5.1  
DII COE Kernel: 3.0.0.3 (with patches P2, P4, P5, P6 and. P7 (Ultra Sparc only))

### **1.2 System Overview**

The Unified Build (UB) is derived from a command and control system originally designed for the afloat Navy—JOTS (Joint Operational Tactical System). As JOTS expanded to meet the needs of both the afloat and ashore Navy-related communities, it was identified as the Unified Build. The present day UB is the result of combining automated Command, Control, Communications, Computers, and Intelligence (C4I) components, Common Operating Environment, and other vital software to fulfill Joint community requirements.

The Unified Build, consisting of the Track Management System (TMS) and the Universal Communications Processor (UCP), forms the core of a C4I system which interfaces to a variety of military communications and computer systems. UB is designed to meet the unique tactical situation assessment, data fusion, and display needs of battle group and force commanders, subordinate warfare commanders, ship commanding officers, and shore command centers.

The UB concept evolved as the result of various C4I initiatives over a period of several years and culminated with the development of a command and control system in which specific applications are built on top of a “superset” of core software. The core software includes track database management, communications interfaces, message processing, track correlation, database management, and tactical display capabilities. A system fielded using UB to provide core services

is usually installed on workstations across a local area network (LAN) and a wide area network (WAN), where operators perform certain tasks.

## 1.3 Product Information

### Product Qualification

Test and evaluation (T&E) were performed at the INRI San Diego facility prior to delivery of the software.

### Product Restrictions

INRI's intellectual property rights to deliverables defined in this document are covered by the copyright license under the clause in DFARS 252.227-7013 (Nov 1995).

### Product Dependencies

This patch is dependent on a properly installed and configured Operating System, Kernel, 3.0.2.5 Application Build. (Note: It is not necessary to install the 3.0.2.5P1 or 3.0.2.5P2 patches before installing 3.0.2.5P3. The 3.0.2.5P3 patch includes all 3.0.2.5P1 and 3.0.2.5P2 changes.)

## 2. Referenced Documents

The following documents are referenced elsewhere in this SVD:

### 2.1 Government Documents

None.

### 2.2 Non-government Documents

- a. *Installation Procedures (IP) for Unified Build (TMS/UCP) Version 3.0.2.5P3,* (DII.3025P3.HP1020\_SOL251.UB\_IP\_1.0), 2 December 1997.

## 3. Version Description

### 3.1 Inventory of materials released

### **Magnetic media:**

The following unclassified tapes are included in the delivery.

- UB Version 3.0.2.5P3 Segment on a 4mm DAT cartridge, intended for TAC-3/TAC-4 hardware environment. This segment can be run on DII COE Kernel Version 3.0.1.0 (with patches P1, P2, P3 and P4) supporting HP-UX 10.20 Operating System.
- UB Version 3.0.2.5P3 Segment on an 8mm EXABYTE cartridge, intended for Sparc 10/20 hardware environment. This segment can be run on DII COE Kernel Version 3.0.0.3 (with patches P2, P3 (for Ultra Sparc *only*), P4, P5, and P6) supporting Solaris Operating System Version 2.5.1.

### **Documents:**

For each document listed below, two laser originals and a disk containing a Word Perfect 6.x file accompany the delivery:

- *Installation Procedures (IP) for Unified Build (TMS/UCP) Version 3.0.2.5P3*, DII.3025P3.HP1020\_SOL251.UB\_IP\_1.0, 2 December 1997.
- *Software Version Description (SVD) for Unified Build (TMS/UCP) Version 3.0.2.5P3*, DII.3025P3.HP1020\_SOL251.UB\_SVD\_1.0, 2 December 1997.

## **3.2 Inventory of Software Contents**

A listing of all computer libraries and files for Unified Build 3.0.2.5P3 is located in Appendix B.

## **3.3 Changes Installed**

A listing of all software changes incorporated into the software since Unified Build 3.0.2.5P2 is

located in Appendix A.

### **3.4 Waivers**

None.

### **3.5 Adaptation Data**

None.

### **3.6 Installation Instructions**

Installation instructions are located in:

- *Installation Procedures (IP) for Unified Build (TMS/UCP)* [Section 2.2 (a)].

The following configuration is recommended:

- RAM: 128 MB minimum; 192 optimum
- Disk space: 2 GB
- Swap Space: 300 MB

### **3.7 Possible Problems and Known Errors**

A listing of all problems and known errors for Unified Build 3.0.2.5P3 is located in Appendix C.

## **4. Notes**

## **4.1 Acronyms**

C4I	Command, Control, Communications, Computers, and Intelligence
COE	Common Operating Environment
DAT	Digital Audio Tape
DII	Defense Information Infrastructure
DFARS	Defense Federal Acquisition Regulation Supplement
GB	Gigabyte
HP-UX	Hewlett-Packard UNIX-based Operating System
INRI	Inter-National Research Institute, Inc.
IP	Installation Procedures
JOTS	Joint Operational Tactical System
LAN	Local Area Network
MB	Megabyte
RAM	Random Access Memory
STR	Software Test Report
SUM	Software User's Manual
SVD	Software Version Description
T&E	Test and evaluation
TAC-3/TAC-4	Tactical Advanced Computer, Version 3/4
TMS	Tactical Management System
UB	Unified Build
UCP	Universal Communication Processor
WAN	Wide Area Network

## Appendix A: Changes Installed

The following global software problem reports (GSPRs) have been implemented in Unified Build Version 3.0.2.5P3.

### Priority 1

<b>GSPR Number:</b>	D71330
<b>AGENCY Number:</b>	None
<b>INRI Number:</b>	30200001246
<b>Short Description:</b>	
MDXBSPROCESS not setting Link track type	
<b>Long Description:</b>	
The MDXBSPROCESS does not set the Link track type when converting 2205 tracks into 3025 tracks. There are two symptoms to this problem: 1) the received link tracks do not correlate to existing Link tracks, and 2) the Link tracks do not display (due also to a different bug where Link tracks without a specific type are not plotted).	
<b>Action:</b> Problem corrected. Code added to 2205 conversion routines to handle 3025 Link track types.	
<b>PRI:</b> 1	
<b>UB/TMS</b>	

## **Priority 2**

**GSPR Number:** D71036

**AGENCY Number:** TT00003

**INRI Number:** 30200001112

**Short Description:**

Failure to retain RTN data when merging ELINT tracks

**Long Description:**

For ELINT tracks created via TCIMF contact reports, received RTN data is perishable with respect to ELINT compare merge operations. Only the RTN data for the “surviving” track is retained when two ELINT tracks are combined. Require modification of RTN handling to insure this data element is preserved for all contact reports involved in track merges.

**Action:**

Problem corrected. Parsed the Rcvd Remarks to populate the ELINT Track RTN structure. Modified the Tracks program ELINT Edit window to display the RTN's. All merged TIBS command RTN's will be maintained with merged track.

**PRI:** 2

**UB/TMS**

**GSPR Number:** D70710

**AGENCY Number:** DU00944

**INRI Number:** 30200001150

**Short Description:**

Attempt to view ELINT assoc from parent

**Long Description:**

A GOLD message which contains a RADB line and also remarks lines causes the edit track window to core dump when trying to view the ELINT data. When remarks are deleted from the incoming msg log and then the track reprocessed the ELINT data is available for viewing. Problem only noted on Solaris platform.

**Action:** Problem corrected by fix for 3020000112.

**PRI:** 2

UB/

**GSPR Number:** D70996

**AGENCY Number:** DU00983

**INRI Number:** 30200001188

**Short Description:**

View Only Profile allows operator to delete a track.

**Long Description:**

When the VIEW option is selected for a profile the operator is restricted from manipulating the track database. The delete option is part of that restriction and is correctly implemented everywhere except the individual track edit window. The track edit window contains the option DELETE in the Pop-Up Menu and allows the operator to perform a track delete. This is being submitted as a Priority 1 problem because there is no workaround.

**Action:**

Problem corrected. Modified the Tracks program edit windows to not allow the rt. pop-up delete entry when the user's role is VIEW only.

**PRI:** 2

UB/

**GSPR Number:** None

**AGENCY Number:** DU00985

**INRI Number:** 30200001190

**Short Description:**

CID/CSN Routing Indicators

**Long Description:**

Under the COMMS EDIT window, right click and attempt to change the CID/CSN, the system will ask for a 7 character routing indicator. All SCI routers are 6 characters only. Need for change: Need to be able to change the R routing indicators to Y routing indicators for SCI message processing.

**Action:**

Problem corrected. Now allow 6 or 7 character routing indicators.

**PRI:** 2

UB/

## Priority 3

**GSPR Number:** None

**AGENCY Number:** None

**INRI Number:** 30200001198

**Short Description:**

ATO SAVE TO FLOPPY option doesn't work on Solaris.

**Long Description:**

ATO SAVE TO FLOPPY option doesn't work on Solaris. When clicked on the system doesn't appear to access floppy drive. When run by hand receive Permission Denied.

**Action:**

Problem corrected. Permissions changed in Packages file.

**PRI:** 3

UB/UCP

**GSPR Number:** D70291

**AGENCY Number:** DU00777

**INRI Number:** 30200000966

**Short Description:**

Block edit of message in OLOG which have already been transmitted.

**Long Description:**

Block edit of message in OLOG which have already been transmitted. Messages in the OLOG which have been transmitted should not be able to be transmitted. If a message in the OLOG which has been transmitted is opened and edited, a new copy of the message should be stored. The original OLOG entry should remain unchanged.

**Action:**

Problem corrected. Message log code changed so operator cannot save changes except by transmitting message.

**PRI:** 3

UB/UCP

**Priority 4**

None.

## **Priority 5**

None.

## **Appendix B: Inventory of Software Contents**

The following list identifies computer libraries and files for Unified Build 3.0.2.5P3.

### **UB.P3/Scripts**

.Xdefaults.UB*	.cshrc.UB*	.cshrc.dev*
.xsession.UB*		

### **UB.P3/SegDescrip**

DEINSTALL	PostInstall	ReleaseNotes	SegInfo
SegName	VERSION		

### **UB.P3/bin**

Acm	Aco	AcoDecoder
AddVolume	AlertDaemon	AlertDispFil
AlertInterrupt	AlertLog	AlertNonInterrupt
AlertNotifier	AlertNotify	AlertReset
AlertWarn	Amp	AmpConfig
ArchRest	ArchiveMgr	Archiver
Ato	AtoIE	AttachTacPlot
AutoDelete	AutoForward	AutoPlotOff
BSBoolSearchFilters	BSBoolTracks	BcstMgr
BcstStdio	BinMsgs	Broadcast
CITable	COEHelp	COEHelpOn
CP_Warning	CR1	CTRL-U
Calculator	CecProcess	CenterTrk
ChBcst	ChanStat	Chart
ChartDemo	Collator	Comms
CommsDec	CommsWdw	ConfigSysStat
Contour	Contours	CoordConv
Countries	CreateChart	CustomHistory
DBSearch	DDNTTimeout	Datum_Translation
DecGold	DecStatus	Declutter
DisplayTest	DrawADRG	DrawCAC
DrawContours	DrawCountries	Duplex
EditAen	EditBcsts	EditCSDC
EditChannels	EditCore	EditCtc
EditDlrps	EditGen	EditHfdf

EditRadiosnd	EditSsn	EditTarget
Elevation	ElintConfig	ElnotSyn
ElnotVer	EmailRecv	EmailSend
EmailTable	ExcFilt	ExportChart
Exporter	ExtractFiles	FD_FMT
FIX_X	FLFormat	F_FMT
Features	FileEditor	FileStats
FilterView	FlagThreat	FollowTrack
FotcConfig	FotcSitrep	Fsck
GENBCST_OFF	GENBCST_ON	GFCP
GSit	GenAdmDec	GenBcst
GenDuplex	GeoFilters	GetBasicIntel
GoldBdcst	GoldProcess	Graphprint
HDFormat	HELPBROWSER	Headers
Heartbeat	HelpConvert	HelpOn
HelpWait	HostTable	Icm
Importer	InFotcSum	InMsgFilters
Interfaces	Ireps	JUnitSyns
Jotsii	KermitComms	LDFormat
Lattel	LinkArchive	LinkStatus
LoadADRG	LoadCAC	LoadRaster
LogMgr	MDXBSBdest	MDXBSProcess
MEMORY	MEMORY.CHK	MONITOR
MakeDBDBHdr	MapList	MapManager
MapMgr	MasterRef	Mdx
Mdx2122Process	MdxCecProcess	MdxConfig
MdxGoldBdcst	MdxGoldProcess	MdxNet
MdxNetCfg	MdxNetTop	MdxSenProcess
MdxTrkBdcst	MdxTrkProcess	MoBoard
Monitor	Mpr	MsgAckDec
MsgAlert	MsgLog	MsgServ
NetPing	NetPrec	Network
NickNames	NipsTdbm	Notifier
NrtiComms	Ocm	Operations
Opnotes	Optionals	Oto
OvlyDec	OwnExtHist	Pcm
PifDontCare	PlotToggles	Profile
QueryServer	QuickZoom	RFBCTable
RFNet	RFNetConfig	RM.alerts
RM.all	RM.ato	RM.ilog-rlog

RM.maptpls	RM.olog	RM.printer
RM.tdb	RM.v6tty	RUN_SysCon
RadarFuncs	RangeCircle	RecallOp
RegisterAlert	ReloadMapDirs	ReloadPath
RemoveVolume	ResetServer	RestartTactPlot
SECURESCREEN	SIGeoFilters	SatDec
SavePlotCtrls	ScanTypes	ScreenAlertFilter
ScreenAlerts	ScreenSaver	SearchFilters
Sectioner	SelArea	SelectFont
SelectTrack	Sensors	SetBackground
ShipClasses	SiteControl	Sites
SlashTimes	Sources	SpatialQuery
SpecialCtrls	SsnBcst	Staccs
StaccsConfig	StoredAtts	StuAlert
StuIII	StuTable	SvAtoFloppy.scr
SymbolLabels	Synonyms	SysCon
SysNetPing	TD_Converter	TEXTEDIT
TOP	TdaDec	TdbSearch
Tdbm	TdbmDec	TdbmStatus
TechData	Timelate	ToIDB
ToIReports	TrackControl	TrackDBConfig
TrackDBConfig.csh	TrackGroups	TrackHook
TrackSymbols	Tracker	Tracks
TreTabular	TrkBdcst	TrkProcess
TrkTotals	TrksFltrd	TroubleReport
TypeHilites	TypeToggles	UBChart
UBInit	UBRestoreUI	UBSettings
UB_NIPSTDBM	UB_Remount.csh	UB_RunProg
UB_SACleanData	UB_SACleanData.csh	UB_SASetWanUid
UB_SATape	UnKey	UnRegisterAlert
VDD	VIEWCHANNEL	VMAIL
VPFDraw	VPFSpxQuery	VPFViewAttributes
ViewBcst	ViewChannel	ViewFile
ViewIOpnote	ViewInput	ViewOlog
ViewRlog	Vshow	WanBcst
WanPing	WarnWindow	Warning
WriteFiles	XLOAD	XRefTable
XTERM	XWD	XWDFULL
XmitFiles	import_file	kermit
killTM	los	mktapedir

nrti_stdout	nrti_ui	pcdir
pcread	pcwrite	perspective
setup	ship	unzip
usmc_ovly_xmit_on_off	vmake	vpfedit
vpfload	wrap_uid	xcalc
xlock	zip	zipcloak
zipnote	zipsplit	

**UB.P3/data**

FIX_DISPLAY	Help	ThreatColor	VDD
app-defaults			

**UB.P3/data/Help**

Aindex	Dindex	HelpMap	Jindex	Pindex
Tindex	UB_UG			

**UB.P3/data/Help/UB\_UG**

A	F	J	P	S	T
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**UB.P3/data/Help/UB\_UG/A**

AirTask.htm	AirTask1.gif	AirTask10.gif
AirTask11.gif	AirTask12.gif	AirTask13.gif
AirTask14.gif	AirTask15.gif	AirTask16.gif
AirTask17.gif	AirTask18.gif	AirTask19.gif
AirTask2.gif	AirTask20.gif	AirTask3.gif
AirTask4.gif	AirTask5.gif	AirTask6.gif
AirTask7.gif	AirTask8.gif	AirTask9.gif

**UB.P3/data/Help/UB\_UG/F**

FOTCParm.htm	FOTCParm1.gif	FOTCParm2.gif
FOTCParm3.gif	FOTCParm4.gif	FOTCParm5.gif

**UB.P3/data/Help/UB\_UG/J**

JUnit.htm	JUnit1.gif
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**UB.P3/data/Help/UB\_UG/P**

PIDINknm.htm	PIDINknm1.gif	PIDINknm2.gif
PIDINknm3.gif		

**UB.P3/data/Help/UB\_UG/S**

SymbLbls.htm	SymbLbls1.gif	SymbLbls2.gif
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**UB.P3/data/Help/UB\_UG/T**

TrkHook.htm	TrkHook1.gif	TrkHook2.gif
TrkHook3.gif	TrkTbl.htm	

**UB.P3/data/ThreatColor**

THREATCOLOR

**UB.P3/data/VDD**

add_vdd	header.html	none.html
remove_vdd	trailer.html	vdd.html
vdd_ToC.html		

**UB.P3/data/app-defaults**

JUnitSyns	NickNames	TrackHook
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**UB.P3/lib**

libDbm.sl	libGu.sl	libIm.sl
libMlib.sl	libMu.sl	libServices.sl
libTM.sl	libVHelp.sl	libVids.sl
libZ.sl	libZx.sl	

**UB.P3/topdata.global**

Decoders	GDbs	Messages
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**UB.P3/topdata.global/Decoders**

ATOMTF	BATHY	BINARYMSG
CASREP	CHGREP	COMSPOT
CRITIC	FOTCSR	FWHISKY
GENADMIN	GLDOPNT	GLDOVLY
GOLDRPT	GPSAMSG	GRIDFLD
INDIGO	JMIEOPNT	JMIERTP
JOTOVLY	JUNITRPT	LOCATOR
LSP	MARREP	MDUMSG
MFUMSG	MOVORD	MOVREP
MSGACK	MUNIT	NUNIT
OBREP	OPSKED	OTHER
PIMTRCK	RAINFRM	RCSATSM
RDSND	RTHRSTA	

RTHRTAS	SATCHAR	SATVULN
SCNKILO	SITREP	SMD1MSG
SMD2MSG	SMD3MSG	SUBAMSG
SUBAREQ	SUBNOTE	SUBNREQ
TACELNT	TACREP	TURQUOISE
WEX		

**UB.P3/topdata.global/GDbs**

UB	UB.2205
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**UB.P3/topdata.global/GDbs/UB**

ub_mdxbs_del.db	ub_mdxbs_emit.db	ub_mdxbs_event_hdr.db
ub_mdxbs_hdr.db	ub_mdxbs_link.db	ub_mdxbs_plat.db
ub_mdxbs_rad.db	ub_mdxbs_rpt.db	ub_mdxbs_threat.tbl
ub_mdxbs_unit.db		

**UB.P3/topdata.global/GDbs/UB.2205**

ub2205_del.db	ub2205_emit.db	ub2205_event_hdr.db
ub2205_hdr.db	ub2205_link.db	ub2205_plat.db
ub2205_rad.db	ub2205_rpt.db	ub2205_threat.tbl
ub2205_unit.db		

**UB.P3/topdata.global/Messages**

Mdx	NonGuard_Interfaces
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**UB.P3/topdata.global/Messages/Mdx**

Decoders	Encoders	ub2205_decoder.dir
ub2205_del.invmap	ub2205_del.map	ub2205_emit.invmap
ub2205_emit.map	ub2205_encoder.dir	ub2205_event_hdr.invmap
ub2205_hdr.invmap	ub2205_hdr.map	ub2205_link.invmap
ub2205_link.map	ub2205_plat.invmap	ub2205_plat.map
ub2205_rad.invmap	ub2205_rad.map	ub2205_rpt.invmap
ub2205_rpt.map	ub2205_unit.invmap	ub2205_unit.map

**UB.P3/topdata.local**

System
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**UB.P3/topdata.local/System**

TrackProgs	TrackSymbols
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## **Appendix C: Possible Problems and Known Errors**

Outstanding problems are being addressed in 3.0.2.5P4.

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